Journal of Analytical and Applied Pyrolysis, 21 (1991) 339–340
Elsevier Science Publishers B.V., Amsterdam

Author index

Aoyagi, Y., see Mochida, I., 95

Bennini, S.
–, Castillo, S. and Traverse, J.P.
Effects of an intense thermal flux on a lignocellulosic material, 305
Berwald, L., see Dworzanski, J.P., 221
Billaud, F.
Thermal decomposition of propane: an original method of temperature calibration in a plug flow pyrolysis apparatus, 15
Bradna, P.
–, and Zima, J.
The use of pyrolysis–gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, 207
Bremer, J., see Faix, O., 147

Čadanović-Brunet, J.M., see Milić, B.Lj., 233
Castillo, S., see Bennini, S., 305
Chen, J., see Luo, A., 327
Chen, Q.
–, and Froment, G.F.
Thermal cracking of substituted aromatic hydrocarbons. I. Kinetic study of the thermal cracking of i-propylbenzene, 27
–, and Froment, G.F.
Thermal cracking of substituted aromatic hydrocarbons. II. Kinetic study of the thermal cracking of *n*-propylbenzene and ethylbenzene, 51
Chiavari, G., see Galletti, G.C., 239

Daniel, S.R., see Zarrabi, K., 1
Davidson, R.G.
The effect of mechanical degradation on the pyrolysis of poly(methyl methacrylate) and its copolymers, 181
Deglise, X., see Donnot, A., 265
Deng, L., see Luo, A., 327
Devesa, J., see Font, R., 249
Djilas, S.M., see Milić, B.Lj., 233
Donnot, A.
–, Magne, P. and Deglise, X.
Experimental approach to the catalyzed cracking reaction of tar from wood pyrolysis, 265
Durfee, S.L., see Zarrabi, K., 1

Dworzanski, J.P.
–, Berwald, L., McClennen, W.H. and Meuzelaar, H.L.C.
Mechanistic aspects of the pyrolytic methylation and transesterification of bacterial cell wall lipids, 221

Faix, O.
–, Bremer, J., Schmidt, O. and Stevanovic J., T.
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis–gas chromatography and Fourier-transform infrared spectroscopy, 147
Font, R.
–, Marcilla, A., Verdu, E. and Devesa, J.
Thermogravimetric kinetic study of the pyrolysis of almond shells and almond shells impregnated with $CoCl_2$, 249
Froment, G.F., see Chen, Q., 27, 51
Fu, R., see Luo, A., 327
Fujitsu, H., see Mochida, I., 95

Gaboriaud, F.
–, Vantelon, J.-P., Guelzim, A. and Julien, L.
Gas evolution during isothermal pyrolysis of Timahdit oil shale, 119
Galletti, G.C.
–, Chiavari, G., Mellon, F.A. and Parlsey, K.
Pyrolysis–gas chromatography/mass spectrometry and electron impact-, fast atom bombardment–mass spectrometry of sulfonylureas, 239
Galletti, G.C.
–, Ward, R.S. and Pelter, A.
Analysis of pyrolysis products of lignans using capillary gas chromatography and ion trap detection, 281
Ge, B., see Luo, A., 327
Guelzim, A., see Gaboriaud, F., 119
Gusel'Nikov, L.E.
–, Volkova, V.V., Ivanov, P.E., Inyushkin, S.V., Shevelkova, L.V., Zimmermann, G., Ziegler, U. and Ondruschka, B.
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, 79

Hall, K., see Stout, S.A., 195
He, Q., see Luo, A., 327

Inyushkin, S.V., see Gusel'Nikov, L.E., 79
Ismail, H.M.
A thermoanalytic study of metal acetylacetonates, 315
Ivanov, P.E., see Gusel'Nikov, L.E., 79

Julien, L., see Gaboriaud, F., 119

Kousidis, N., see Zabaniotou, A.A., 293

Lappas, A.A., see Zabaniotou, A.A., 293
Lattimer, R.P., see Schulten, H.-R., vii
Liwen, J.
Gas chromatography analysis of propane fraction derived from pyrolysis of gas oil, 111
Luo, A.
–, Ge, B., Fu, R., Ni, J., Chen, J., Deng, L. and He, Q.
The investigation of poly(methyl methacrylate–diallyl phthalate) gradient index materials by pyrolysis–capillary gas chromatography and pyrolysis–capillary gas chromatography/mass spectrometry, 327

Magne, P., see Donnot, A., 265
Marcilla, A., see Font, R., 249
McClennen, W.H., see Dworzanski, J.P., 221
Mellon, F.A., see Galletti, G.C., 239
Meuzelaar, H.L.C., see Dworzanski, J.P., 221
Milić, B.Lj.
–, Djilas, S.M., Premović, P.I. and Čadanović-Brunet, J.M.
Electron spin resonance and electron nuclear double resonance spectroscopy study of non-dialysable melanoidin pyrolysates, 233
Mochida, I
–, Aoyagi, Y., Yatsunami, S. and Fujitsu, H.
Pyrolysis of methane into higher hydrocarbons on carbon fiber in a thin flat tube of quartz heated by an infrared image furnace, 95

Ni, J., see Luo, A., 327

Ogunsola, O.I.
Thermal behaviour of Nigerian oil sands in inert and oxidising atmospheres, 103
Ondruschka, B., see Gusel'Nikov, L.E., 79

Parlsey, K., see Galletti, G.C., 239
Pelter, A., see Galletti, G.C., 281
Premović, P.I., see Milić, B.Lj., 233

Richards, G.N.
–, and Zheng, G.
Influence of metal ions and of salts on products from pyrolysis of wood: applications to thermochemical processing of newsprint and biomass, 133

Schmidt, O., see Faix, O., 147
Schulten, H.R.
–, and Lattimer, R.P.
Editorial: The review process, vii
Senthill, V.P.
Quantitative determination of acrylic copolymers by pyrolysis/capillary gas chromatography/mass spectrometry, 163
Shevelkova, L.V., see Gusel'Nikov, L.E., 79
Stevanovic J., T., see Faix, O., 147
Stout, S.A.
–, and Hall, K.
Laser pyrolysis–gas chromatography/mass spectrometry of two synthetic organic polymers, 195

Traverse, J.P., see Bennini, S., 305

Vantelon, J.-P., see Gaboriaud, F., 119
Verdu, E., see Font, R., 249
Volkova, V.V., see Gusel'Nikov, L.E., 79
Voorhees, K.J., see Zarrabi, K., 1

Ward, R.S., see Galletti, G.C., 281

Yatsunami, S., see Mochida, I., 95

Zabaniotou, A.A.
–, Lappas, A.A. and Kousidis, N.
Flash pyrolysis of Greek lignite, 293
Zarrabi, K.
–, Durfee, S.L., Daniel, S.R. and Voorhees, K.J.
Use of principal component regression to characterize a complex oxidation product mixture, 1
Zheng, G., see Richards, G.N., 133
Ziegler, U., see Gusel'Nikov, L.E., 79
Zima, J., see Bradna, P., 207
Zimmermann, G., see Gusel'Nikov, L.E., 79

Journal of Analytical and Applied Pyrolysis, 21 (1991) 341–344
Elsevier Science Publishers B.V., Amsterdam

Subject index

Acetylacetonates
A thermoanalytic study of metal acetylacetonates, 315
Acrylic copolymers
Quantitative determination of acrylic copolymers by pyrolysis/capillary gas chromatography/mass spectrometry, 163
1-Alkenes
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, 79
Almond shells
Thermogravimetric kinetic study of the pyrolysis of almond shells and almond shells impregnated with $CoCl_2$, 249
Analysis
The use of pyrolysis–gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, 207
Aromatic hydrocarbons
Thermal cracking of substituted aromatic hydrocarbons. I. Kinetic study of the thermal cracking of i-propylbenzene, 27
Thermal cracking of substituted aromatic hydrocarbons. II. Kinetic study of the thermal cracking of *n*-propylbenzene and ethylbenzene, 51

Bacterial fatty acids
Mechanistic aspects of the pyrolytic methylation and transesterification of bacterial cell wall lipids, 221
Beechwood
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis–gas chromatography and Fourier-transform infrared spectroscopy, 147
Biodegradation
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis–gas chromatography and Fourier-transform infrared spectroscopy, 147

Capillary gas chromatography
Analysis of pyrolysis products on lignans using capillary gas chromatography and ion trap detection, 281
Captive sample reactor
Flash pyrolysis of Greek lignite, 293
Catalysis
Experimental approach to the catalyzed cracking reaction of tar from wood pyrolysis, 265
Cobalt chloride
Thermogravimetric kinetic study of the pyrolysis of almond shells and almond shells impregnated with $CoCl_2$, 249
Complex mixtures
Use of principal component regression to characterize a complex oxidation product mixture, 1
Congruence
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis–gas chromatography and Fourier-transform infrared spectroscopy, 147
Copolymers
The effect of mechanical degradation on the pyrolysis of poly(methyl methacrylate) and its copolymers, 181
Cryochemistry
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, 79.
Cycloalkenes
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, 79

Derivatization
Mechanistic aspects of the pyrolytic methylation and transesterification of bacterial cell wall lipids, 221
Differential thermal analysis
A thermoanalytic study of metal acetylacetonates, 315

Epoxy resin
The use of pyrolysis–gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, 207
ESR and ENDOR spectroscopy
Pyrolysis–gas chromatography/mass spectrometry and electron impact-, fast atom bombardment–mass spectrometry of sulfonylureas, 239

Far-from-equilibrium conditions
Effects of an intense thermal flux on a lignocellulosic material, 305
Flash pyrolysis
Flash pyrolysis of Greek lignite, 293
Fluidized-bed process
Experimental approach to the catalyzed cracking reaction of tar from wood pyrolysis, 265
FT-IR
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis–gas chromatography and Fourier-transform infrared spectroscopy, 147

Gas chromatography
Gas chromatography analysis of propane fraction derived from pyrolysis of gas oil, 111
Laser pyrolysis–gas chromatography/mass spectrometry of two synthetic organic polymers, 195
Pyrolysis–gas chromatography/mass spectrometry and electron impact-, fast atom bombardment-mass spectrometry of sulfonylureas, 239
The investigation of poly(methyl methacrylate–diallyl phthalate) gradient index materials by pyrolysis–capillary gas chromatography and pyrolysis–capillary gas chromatography/mass spectrometry, 327
The use of pyrolysis–gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, 207
Gas chromatography/mass spectrometry
Mechanistic aspects of the pyrolytic methylation and transesterification of bacterial cell wall lipids, 221
Gas oil
Gas chromatography analysis of propane fraction derived from pyrolysis of gas oil, 111
Gradient-index (GRIN)
The investigation of poly(methyl methacrylate–diallyl phthalate) gradient index materials by pyrolysis–capillary gas chromatography and pyrolysis–capillary gas chromatography/mass spectrometry, 327

Hardener
The use of pyrolysis–gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, 207
Hydrocarbons
Pyrolysis of methane into higher hydrocarbons on carbon fiber in a thin flat tube of quartz heated by an infrared image furnace, 95
Gas evolution during isothermal pyrolysis of Timahdit oil shale, 119

Indices
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis–gas chromatography and Fourier-transform infrared spectroscopy, 147
Infrared image furnace
Pyrolysis of methane into higher hydrocarbons on carbon fiber in a thin flat tube of quartz heated by an infrared image furnace, 95
Infrared spectroscopy
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, 79
Ion trap detection
Analysis of pyrolysis products of lignans using capillary gas chromatography and ion trap detection, 281
Iron(II)
A thermoanalytic study of metal acetylacetonates, 315
Isothermal pyrolysis
Gas evolution during isothermal pyrolysis of Timahdit oil shale, 119

Kinetic models
Thermal cracking of substituted aromatic hydrocarbons. I. Kinetic study of the thermal cracking of i-propylbenzene, 27
Kinetic study
Thermogravimetric kinetic study of the pyrolysis of almond shells and almond shells impregnated with $CoCl_2$, 249
Kinetics
Flash pyrolysis of Greek lignite, 293

Laser radiation
Laser pyrolysis–gas chromatography/mass spectrometry of two synthetic organic polymers, 145
Lignans
Analysis of pyrolysis products of lignans using capillary gas chromatography and ion trap detection, 281
Lignin determination
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis–gas chromatography and Fourier-transform infrared spectroscopy, 147
Lignite
Flash pyrolysis of Greek lignite, 293
Lignocellulosic material
Effects of an intense thermal flux on a lignocellulosic material, 305

Low temperature matrix isolation
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, 79

Mass spectra
Analysis of pyrolysis products of lignans using capillary gas chromatography and ion trap detection, 281
Mass spectrometry
Laser pyrolysis–gas chromatography/mass spectrometry of two synthetic organic polymers, 195
Pyrolysis–gas chromatography/mass spectrometry and electron impact-, fast atom-bombardment-mass spectrometry of sulfonylureas, 239
Mass spectroscopy
The use of pyrolysis–gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, 207
Methane
Pyrolysis of methane into higher hydrocarbons on carbon fiber in a thin flat tube of quartz heated by an infrared image furnace, 95
Multivariate statistical procedures
Use of principal component regression to characterize a complex oxidation product mixture, 1

Newsprint
Influence of metal ions and of salts on products from pyrolysis of wood: applications to thermochemical processing of newsprint and biomass, 133
Nigerian oil sands
Thermal behaviour of Nigerian oil sands in inert and oxidising atmospheres, 103
Non-dialysable melanoidin
Pyrolysis–gas chromatography/mass spectrometry and electron impact-, fast atom bombardment-mass spectrometry of sulfonylureas, 239

Organic polymers
Laser pyrolysis–gas chromatography/mass spectrometry of two synthetic organic polymers, 195
Oxidising atmosphere
Thermal behaviour of Nigerian oil sands in inert and oxidising atmospheres, 103

Pitch based carbon fiber
Pyrolysis of methane into higher hydrocarbons on carbon fiber in a thin flat tube of quartz heated by an infrared image furnace, 95
Plug flow reactor
Thermal decomposition of propane: an original method of temperature calibration in a plug flow pyrolysis apparatus, 15
Poly(diallyl phthalate) (PDAP)
The investigation of poly(methyl methacrylate–diallyl phthalate) gradient index materials by pyrolysis–capillary gas chromatography and pyrolysis–capillary gas chromatography/mass spectrometry, 327
Poly(methyl methacrylate) (PMMA)
The investigation of poly(methyl methacrylate–diallyl phthalate) gradient index materials by pyrolysis–capillary gas chromatography and pyrolysis–capillary gas chromatography/mass spectrometry, 327
The effect of mechanical degradation on the pyrolysis of poly(methyl methacrylate), 181
Poly(methyl methacrylate–diallyl phthalate)
The investigation of poly(methyl methacrylate–diallyl phthalate) gradient index materials by pyrolysis–capillary gas chromatography and pyrolysis–capillary gas chromatography/mass spectrometry, 327
Principal component regression
Use of principal component regression to characterize a complex oxidation product mixture, 1
Propane
Thermal decomposition of propane: an original method of temperature calibration in a plug flow pyrolysis apparatus, 15
Propane fraction
Gas chromatography analysis of propane fraction derived from pyrolysis of gas oil, 111
i-Propylbenzene
Thermal cracking of substituted aromatic hydrocarbons. I. Kinetic study of the thermal cracking of i-propylbenzene, 27
Thermal cracking of substituted aromatic hydrocarbons. II. Kinetic study of the thermal cracking of *n*-propylbenzene and ethylbenzene, 51
Pyrolysis/capillary gas chromatography/mass spectrometry
Quantitative determination of acrylic copolymers by pyrolysis/capillary gas chromatography/mass spectrometry, 163

Quantitative determination
Quantitative determination of acrylic copolymers by pyrolysis/capillary gas chromatography/mass spectrometry, 163

Reaction mechanism
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, 79

Salt catalysis
Influence of metal ions and of salts on products from pyrolysis of wood: applications to thermochemical processing of newsprint and biomass, 133
Sulfonylureas
Pyrolysis–gas chromatography/ mass spectrometry and electron impact-, fast atom bombardment-mass spectrometry of sulfonylureas, 239

Tar
Experimental approach to the catalyzed cracking reaction of tar from wood pyrolysis, 265
Tetramethylammonium hydroxide
Mechanistic aspects of the pyrolytic methylation and transesterification of bacterial cell wall lipids, 221
Thermal cracking
Thermal cracking of substituted aromatic hydrocarbons. I. Kinetic study of the thermal cracking of i-propylbenzene, 27
Thermal cracking of substituted aromatic hydrocarbons. II. Kinetic study of the thermal cracking of *n*-propylbenzene and ethylbenzene, 51
Thermal decomposition
Effects of an intense thermal flux on a lignocellulosic material, 305
The use of pyrolysis–gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, 207
Thermal decomposition of propane: an original method of temperature calibration in a plug flow pyrolysis apparatus, 15
Thermal stability
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, 79
Thermochemical processing
Influence of metal ions and of salts on products from pyrolysis of wood: applications to thermochemical processing of newsprint and biomass, 133
Thermogravimetric analysis
Thermogravimetric kinetic study of the pyrolysis of almond shells and almond shells impregnated with $CoCl_2$, 249
Thermogravimetry
A thermoanalytic study of metal acetylacetonates, 315
Timahdit oil shale
Gas evolution during isothermal pyrolysis of Timahdit oil shale, 119

Volatilization
Effects of an intense thermal flux on a lignocellulosic material, 305

Wood
Experimental approach to the catalyzed cracking reaction of tar from wood pyrolysis, 265
Influence of metal ions and of salts on products from pyrolysis of wood: applications to thermochemical processing of newsprint and biomass, 133

Zinc(II)
A thermoanalytic study of metal acetylacetonates, 315